

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/022838

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07K14/315 A61K39/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 2006/042027 A (CHIRON CORPORATION) 20 April 2006 (2006-04-20) page 7, paragraph 43 - page 9, paragraph 50 page 11, paragraph 60 page 14, paragraph 70 - page 18, paragraph 79 page 19, paragraph 87 - page 27, paragraph 110 page 30, paragraph 121 - page 70, paragraph 280; example 5 Tables 1-3; 7, 16; Antigen GAS 25; SEQ ID NOs:296, 297 claims</p> <p style="text-align: center;">----- -/-</p>	1-15

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

2 September 2008

Date of mailing of the international search report

10/09/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Montero Lopez, B

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/022838

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 93/05156 A (BECKMAN INSTRUMENTS, INC.) 18 March 1993 (1993-03-18) page 2, line 3 - line 16 page 10, line 25 - page 11, line 6; example 8; sequence 2 -----	1,2
A	US 5 700 648 A (KEHOE MICHAEL [GB] ET AL) 23 December 1997 (1997-12-23) column 2, line 8 - line 31 column 2, line 44 - column 3, line 8 column 8, line 25 - column 9, line 12 -----	1-15
A	GB 2 233 977 A (KEHOE MICHAEL; PINKNEY MICHAEL) 23 January 1991 (1991-01-23) the whole document -----	1-15
A	US 5 354 846 A (KEHOE MICHAEL [GB]) 11 October 1994 (1994-10-11) column 2, line 23 - line 40 column 3, line 46 - column 4, line 32 page 6, line 14 - line 38; figure 1 -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2007/022838

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006042027 A	20-04-2006	AU 2005294275 A1 CA 2583803 A1 EP 1807446 A2	20-04-2006 20-04-2006 18-07-2007
WO 9305156 A	18-03-1993	AT 159293 T AU 661028 B2 AU 2437292 A CA 2094245 A1 DE 69222749 D1 DE 69222749 T2 EP 0555439 A1 ES 2110009 T3 JP 6503003 T JP 3595840 B2 US 5378620 A	15-11-1997 13-07-1995 05-04-1993 01-03-1993 20-11-1997 26-02-1998 18-08-1993 01-02-1998 07-04-1994 02-12-2004 03-01-1995
US 5700648 A	23-12-1997	NONE	
GB 2233977 A	23-01-1991	NONE	
US 5354846 A	11-10-1994	NONE	